

Fig. 5

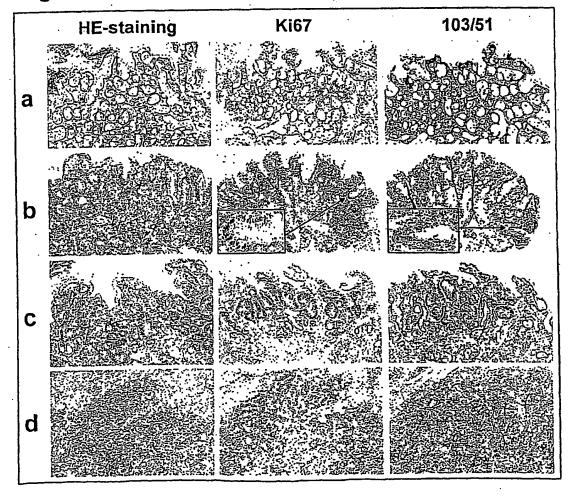


Fig. 6

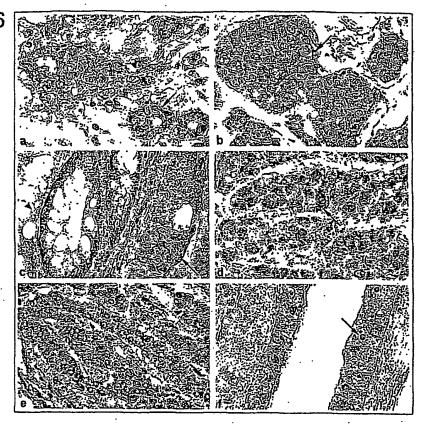
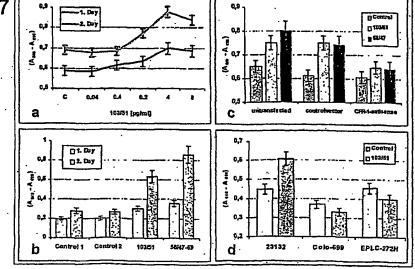


Fig. 7



tcc Ser 1	tgc Cys	aag Lys	gct Ala	tct Ser 5	ggc Gly	tac Tyr	acc Thr	ttc Phe	act Thr 10	Asp	tac Tyr	tat Tyr	ata Ile	aac Asn 15	45	
tgg Trp	gtg Val	aag Lys	cag Gln	agg Arg 20	act Thr	gga Gly	Gln	Glý 99c	ctt Leu 25	gag Glu	tgg Trp	att	gga Gly	gag Glu '30	90	
att Ile	tat Tyr	cct Pro	gga Gly	agt Ser 35	ggt Gly	aat Asn	act Thr	tac Tyr	tac Tyr 40	aat Asn	gag Glu	aag Lys	ttc Phe	aag Lys 45	135	•
GJ y	aag Lys	gcc Ala	aca Thr	ctg Leu 50	act Thr	gca Ala	gac Asp	aaa Lys	tcc Ser 55	tcc Ser	agc Ser	aca Thr	gcc Ala	tac Tyr 60	180	
atg Met	Gln Gln	ctc Leu	agc Ser	agc Ser 65	ctg Leu	aca Thr	tct Ser	gag Glu	gac Asp 70	tct Ser	gca Ala	gtc Val	tat Tyr	ttc Phe 75	225	
tgt Cys	gca Ala	aga Arg	tcg Ser	99a Gly 80	tta <sup>.</sup> Leu	cga Arg	ecc Pro	tat Tyr	gct Ala 85	atg Met	gac Asp	tac Tyr	tgg Trp	ggt Gly 90	270	
	gga Gly															

Fig. 8A

95

Fig. 8B

Nucleotide sequence of the variable region of the heavy chaln (VH) of antibody NM58-49/69

	·	0	135	180	225	270	
	aac Asn 15	9ag Glu 30	aag Lys 45	tac Tyr 60	tt <i>c</i> Phe 75	ggt Gly 90	
	ata Ile	99a Gly	ttc aag Phe Lys 45	gcc Ala	tat Tyr		
CDR1	tat Tyr	I I e	gag aag Glu Lys	aca Thr	gt <i>c</i> Val	J-gene atg gac tac tgg Met Asp Tyr Trp	
O	tac Tyr	tgg Trp	gag Glu	agc Ser	gca Ala	J-gene tg gac et Asp	
	дас Авр	ctt gag Leu Glu 25	tac aat Tyr Asn 40	Ser	ger Ser	J-g atg Met	
	ttc act Phe:Thr 10	ggc ctt gag Gly Leu Glu 25 :DR2		tcc Ser SS	gac Asp 70	CDK3 ccc tat gct Pro Tyr Ala 85	
		ggc Gly CDR2	aat act tac Asn Thr Tyr	ааа Lys		Tyr Tyr	
	acc Thr	cag Gln	act Thr	gас Авр			
	tac Tyr	99a G1y	aat Asn	gca Ala	aca Thr	-gene gga tta cga Gly Leu Arg 80	
	ggc Gly	act Thr	ggt Gly	act Thr	agc.ctg Ser Leu 65	tta Leu	acc
	tct Ser 5	agg Arg 20	agt Ser 35	ctg Leu 50		D-gene	gtc Val
	gct Ala	cag Gln	gga Gly	aca Thr	agc . Ser	treg Ser	tca
	aag Lys	аад Lys	GCt	gcc Ala	oto Leu	aga Arg	acc
	tgc Cys	gtg Val	tat Tyr	аад Lyв	cag Gln	gca Ala	gga Gly
•	tcc Ser i	tgg Trp	att Ile	ggc	atg Met	tgt Cys	caa
		•					

cca Pro 1	ctc Leu	tcc Ser	ctg Leu	cct Pro 5	gtc Val	agt Ser	ctt Leu	gga Gly	gat Asp 10	caa Gln	gec Ala	tec Ser	atc Ile	tct Ser 15	4	5
tgc Cys	aga Arg	tct Ser	agt Ser	Cag Gln 20	agc Ser	att Ile	gta Val	cat His	agt Ser 25	Asn	gga Gly	aac Asn	acc Thr	tat Tyr 30	9	0
tta Leu	gaa Glu	tgg Trp	tac Tyr	ctg Leu 35	cag Gln	aaa Lys	Prọ cca	ggc	cag Gln 40	tct Ser	cca Pro	aag Lys	ctc Leu	ctg Leu 45	. 1	.35
atc	tac Tyr	aaa Lys	gtt Val	tcc Ser 50	aac Asn	yi.a cas	ttt Phe	tct Ser	22 GJ y 999	gtc Val	cca Pro	gac	agg Arg	ttc Phe 60	. 1	.80
					G17 888										. 2	.25
gtg Val	G1n Gag	gct Ala	gag Glu	gat Asp 80	ctg Leu	gga Gly	gtt Val	tat Tyr	tac Tyr 85	tgc Cys	ttt Phe	ćaa Gln	ggt Gly	tca Ser 90	2	70
cat His	gtt Val	ccg Pro	tac Tyr	acg Thr 95	ttc Phe	gga Gly	999 Gly	999 Gly	acc Thr 100	aag Lys	ctg Leu	gaa Glu	ata Ile	aaa Lys 105	3	15.

Fig. 9A

Nucleotide sequence of the variable region of the light chain (VL) of antibody NM58-49/69

Fig. 9B

4. 2		135	180	225	270	315
tot Ser 15	Tyr 30	ctg Leu 45	ttc Phe 60	aga Arg 75	tca Ser 90	aaa Lys 105
atc	acc Thr	ctc Leu	agg Arg	agc ag Ser Au	ggt Gly	ata Ile
Ser	aac Asn	aag Lys	gac	atc Ile	caa Gln	gaa Glu
gcc Ala	gga Gly	cca Pro	CCa Pro	аад Lув	ttt	ctg Leu
caa Gln	aat Asn	tot Ser	gtc Val	ctc Leu	tgc Сув	аад Гув
a gat y Asp 10 CDR1	agt Ser 25	cag Gln 40	999 G17 55	aca Thr 70	tac Tyr 85	acc Thr 100
99	cat His	99c 61y	Ser	ttc Phe	tat Tyr	999 G1y
ctt Leu	gta Val	cca Prọ	ttt Phe	gat Asp	gtt Val	999 Gly
agt Ser	att Ile	ааа Lys	cga Arg	aca Thr	gga Gly	gga G1y
gtc Val	agc Ser	cag Glu GCDR2	Asn	999 Gly	ctg Leu	ttc Phe
cct Pro 5	cag Gln 20	oto Leu 33	tcc Ser 50	ser 65	gat Asp 80	acg Thr 95
tcc ctg Ser Leu	agt Ser	tac Tyr	gtt Val	gga Gly	gag Glu	tac Tyr
	tet Ser	tgg Trp	ааа Lys	agt Ser	gct Ala	CCG Pro
cca ctc Pro Leu 1	aga Arg	gaa Glù	tac Tyr	ggc Gly	gag Glu	gtt Val
cca Pro 1	Cys	Lea	atc Ile	agt. Ser	gtg val	cat

gat Asp	gtg Val	agg Arg	gag Glu	cct Pro 5	gaa Glu	aat Asn	gaa Glu	att Ile	tct Ser 10	tca Ser	gac Asp	tgc Cys	aat Asn	cat His 15		45
ttg Leu	ttg Leu	tgg Trp	aat Asn	tat Tyr 20	aag Lys	ctg Leu	aac Asn	cta Leu	act Thr 25	aca Thr	gat Asp	ccc Pro	aaa Lys	ttt Phe 30		90
gaa Glu	tct Ser	gtg Val	gcc Ala	aga Arg 35	gag Glu	gtt Val	tgc Cys	aaa Lys	tct Ser 40	act Thr	ata Ile	aca Thr	gag Glu	att Ile 45		135
gaa Glu	gaa Glu	tgt Cys	gct Ala	gat Asp 50	gaa Glu	ccg Pro	gtt Val	gga Gly	aaa Lys 55	ggt Gly	tac Tyr	atg Met	gtt Val	tcc Ser 60		180
tgc Cys	ttg Leu	gtg Val	gat Asp	Cac His 65	cga Arg	ggc Gly	aac Asn	atc Ile	act Thr 70	gag Glu	tat Tyr	cag Gln	tgt Cys	cac His 75		225
GJD.	tac Tyr	att Ile	acc Thr	aag Lys 80	atg Met	acg Thr	gcc Ala	atc Ile	att Ile 85	ttt Phe	agt Ser	gat Asp	tac Tyr	egt Arg 90		270
tta Leu	atc Ile	tgt Cys	Gly	ttc Phe 95	atg Met	gat Asp	ġāc Așp	tgc Cys	aaa Lys 100	aat Asn	gac Asp	atc Ile	aac Asn	att Ile 105		315
ctg Leu	aaa Lys	tgt Cys	ggc	agt Ser 110	att Ile	cgg	ctt Leu	gga Gly	gaa Glu 115	aag Lys	gat Asp	gca Ala	cat His	tca Ser 120		360
caa Gln	ggt Gly	gag Glu	gtg Val	gta Val 125	tca Ser	tgc Cys	ttg Leu	gag Glu	aaa Lys 130	ggc Gly	ctg Leu	gtg Val	aaa Lys	gaa Glu 135	•	405
gca Ala	gaa Glu	gaa Glu	aga Arg	gaa Glu 140	ccc	aag Lys	att Ile	caa Gln	gtt Val 145	tct Ser	gaa Glu	ctc Leu	tgc Cys	aag Lys 150		450
aaa Lys	gcc Ala	att Ile	ctc Leu	cgg Arg 155	gtg Val	gct Ala	gag Glu	ctg Leu	tca Ser 160	tcg Ser	gat Asp	yebi	ttt Phe	cac His 165		495
tta Leu	Asp	cgg	cat His	tta Leu 170	tat Tyr	ttt Phe	gct Ala	tgc Cys	cga Arg 175	gat Asp	gat Asp	cgg Arg	gag Glu	.cgt Arg 180		540
ttt Phe	tgt Cys	gaa Glu	aat Asn	aca Thr 185	caa Gln	gct Ala	ggt Gly	gag Glu	99C Gly 190	aga Arg	gtg Val	tat Tyr	aag Lys	tgc Cys 195		585
ct <i>c</i> Leu	ttt Phe	Asn	cat His	aaa Lys 200	ttt Phe	gaa Glu	gaa Glu	tcc Ser	atg Met 205	agt Ser	gaa Glu	aag Lys	tgt Cys	cga Arg 210	•	<b>630</b>

Fig. 10-1

WO 2005/116076 PCT/IB2005/002480

							•									
gaa Glu	·gca Ala	ctt Leu	aca Thr	acc Thr 215	cgc Arg	caa Gln	aag Lys	ctg Leu	att Ile 220	gcc Ala	cag Gln	gat Asp	tat Tyr	aaa Lys 225		·675
gtc Val	agt Ser	tat	tca Ser	ttg Leu 230	gcc Ala	. aaa Lys	tcc Ser	tgt Cys	aaa Lys 235	agt Ser	gac Asp	ttg Leu	aag Lys	aaa Lys 240		720
tac	cgg Arg	tgç Cys	aat Asn	gtg Val 245	gaa Glu	aac Asn	ctt Leu	ccg Pro	.cga Arg 250	tcg Ser	cgt	gaa Glu	gcc Ala	agg Arg 255		765
			ttg Leu													810 ·
cga	caa Gln	gtc Val	agc Ser	agt Ser 275	gag Glu	tgc Cys	cag Gln	<b>GJÀ</b> 333	gag Glu 280	atg Met	ctg Leu	gat Asp	tac Tyr	cga Arg 285		855
			atg Met		Asp											900
			617 999													945
aaa Lys	61Å 888	cgg Arg	acc Thr	cta Leu 320	cac His	tgt Cys	ctg Leu	atg Met	aaa Lys 325	gta Val	gtt Val	cga Arg	999 999	gag Glu 330		990
			ctt Leu													1035
att Ile	cag Gln	gag Glu	act Thr	gac Asp 350	cct Pro	ggt Gly	gca Ala	gat Asp	tac Tyr 355	cgc Arg	att Ile	gat Asp	cga Arg	gct Ala 360		1080
			gct Ala												٠.	1125
ata Ile	aga Arg	tct Ser	gga Gly	gac Asp 380	cca Pro	atg Met	atc Ile	ttg Leu	tcg Ser 385	tgc Cys	ctg Leu	atg Met	gaa Glu	cat His 390		1170
			Glu											tta Leu 405		1215
gag Glu	ctg Leu	cag Gln	tat Tyr	ttc Phe 410	atc Ile	tec Ser	cgg Arg	gat Asp	tgg Trp 415	aag Lys	ren	.gac	cct Pro	gtc Val 420		1260
														acc Thr 435		1305
														gtg Val 450		1350
														99a Gly 465	•	1395

Fig. 10-2

		cgg gag Arg Glu 470										1440
		atg gat Met Asp 485										1485
		gat ctg Asp Leu 500										1530
		ctg gag Leu Glu 515										1575
		aga gat Arg Asp 530										1620
		caa ata Gln Ile 545										1665
		p aac tto Asn Phe 560										1710
		ctg atg Leu Met 575										1755
Lys As	Met Ası	gag aag Glu Lys 590	Cys Ala	lle	Gly 595	Val	Thr	His	Phe	Gln 600		1800
Leu Va	i Gln Met	aag gat Lys Asp 605	Phe Arg	) Phe	Ser 610	Tyr	Lys	Phe	Lys	Met 615		.1845
		gac gtg Asp Val 620										1890
Lys Va	l Asp Val	gtg ato Val Ile 635	Cys Lei	ı Ser	Thr 640	Thr	Val	Arg	Asn	Asp 645		1935
Thr Le	u Gln Glı	n gcc aag n Ala Lys 650	Glu Hi	s Arg	Val 655	Ser	Leu	Lys	Сув	Arg 660		1980
		gtg gag Wal Glu 665										2025
		teu Tyr 680				Ser					•	2070
		gtg caa Val Glr 695				Gln						2115
		aag aag Lys Lys 710				Arg						2160

Fig. 10-3

gta Val	ttt Phe	aag Lys	ctg Leu	cag Gln 725	gag Glu	aca Thr	gag Glu	atg Met	atg Met 730	gac Asp	cca Pro	gag Glu	cta Leu	gac Asp 735	·	2205
tac Tyr	acc Thr	ctc Leu	atg Met	agg Arg 740	gtc Val	tgc Cys	aag Lys	Gln	atg Met 745	ata Ile	aag Lys	aag Lys	Phe	tgt Cys 750		2250
ccg Pro	gaa Glu	gca Àla	gat Asp	tct Ser 755	aaa Lys	acc Thr	atg Met	ttg Leu	cag Gln 760	tgc Cys	ttg Leu	aag Lys	caa Gln	aat Asn 765	•	2295
aaa Lys	aac Asn	agt Ser	gaa Glu	ttg Leu 770	atg Met	gat Asp	ccc Pro	ГÀЕ	tgc Cys 775	aaa Lys	cag Gln	atg Met	ata Ile	acc Thr 780		2340
aag Lys	cgc	Gln	atc Ile	acc Thr 785	Cag Gln	aac Asn	aca Thr	gat Asp	tac Tyr 790	ege Arg	tta Leu	aac Asn	ccc Pro	atg Met 795		2385
tta Leu	aga Arg	aaa Lys	gcc Ala	tgt Cys 800	aaa Lys	gct Ala	gac Asp	att	CCT Pro 805	aaa Lys	ttc Phe	tgt Cys	cac His	ggt Gly 810		2430
atc Ile	ctg Leu	act	aag Lys	gcc Ala 815	aag Lys	gat Asp	gat Asp	tca Ser	gaa Glu 820	tta Leu	gaa Glu	gga Gly	caa Gln	gtc Val 825	. •	2475
atc Ile	tct Ser	tgc Cys	ctg Leu	aag Lys 830	ctg Leu	aga Arg	tat Tyr	gct Ala	gac Asp 835	cag Gln	ege Arg	ctg Leu	tct Ser	tca Ser 840	•	2520
			gac Asp													2565
gac Asp	tac Tyr	egc Arg	ctg Leu	gat Asp 860	cct Pro	cag Gln	ctc Leu	cag	ctg Leu 865	cac His	tgc Cys	tca Ser	gac Asp	gag Glu 870		2610
atc Ile	tcc Ser	agt Ser	cta Leu	tgt Cys 875	gct Ala	gaa Glu	gaa Glu	gca Ala	gca Ala 880	gcc Ala	caa Gln	gag Glu	cag Gln	aca Thr 885		2655
ggt Gly	cag Gln	gtg Val	gag Glu	gag Glu 890	tgc Cys	ctc Leu	aag Lys	gtc Val	aac Asn 895	ctg Leu	ctc Leu	aag Lys	atc Ile	aaa Lys, 900		2700
aca Thr	gaa Glu	ttg Leu	tgt Cys	ааа <b>Lys</b> 905	aag Lys	gaa Glu	gtg Val	cta Leu	aac Asn 910	atg Met	ctg Leu	aag Lys	gaa Glu	agc Ser 915		2745
aaa Lys	gca Ala	gac Asp	atc Ile	ttt Phe 920	gtt Val	gac Asp	ccg Pro	gta Val	ctt Leu 925	cat His	act Thr	gct Ala	tgt Cys	gcc Ala 930		2790
ctg Leu	gac Asp	att Ile	aaa Lys	His	cac His	tgc Cys	gca Ala	gce Ala	atc Ile 940	acc Thr	ect Pro	Gjå 88c	cgc Arg	999 Gly 945		2835
cgt Arg	caa Gln	atg Met	tcc Ser	tgt Cys 950	ctc Leu	atg Met	gaa Glu	gca Ala	ctg Leu 955	gag Glu	gat Asp	aag Lys	cgg Arg	gtg Val 960		2880
agg Arg	tta Leu	cag Gln	CCC Pro	gag Glu 965	tgc Cys	aaa Lys	aag Lys	cgc Arg	ct <i>c</i> Leu 970	aat Asn	gac Asp	Arg Cgg	att Ile	gag Glu 975		<b>2925</b>

Fig. 10-4

12/23

				-											
atg Met	tgg Trp	agt Ser	tac Tyr	gca Ala 980	gca Ala	aag Lys	gtg Val	gcc Ala	cca Pro 985	gca Ala	gat Asp	Gly 99c	ttc Phe	tct Ser 990	2970
gat Asp	ctt Leu	gcc Ala	atg Met	caa Gln 995	gta Val	atg Met	acg Thr	tct Ser	cca Pro 1000	Ser	aag Lys	aac Asn	tac Tyr	att Ile 1005	3015
ctc Leu	tct Ser	gtg Val	atc Ile	agt Ser 1010	Gly	agc Ser	atc Ile	tgt Cys	ata Ile 101	Leu	ttc Phe	ctg Leu	att Ile	ggc Gly 1020	3060
ctg Leu	atg Met	tgt Cys	gga Gly	cgg Arg 1025	Ϊle	acc Thr	aag Lys	cga Arg	gtg Val 1030	Thr	cga Arg	Glu gag	ctc Leu	aag LysA <sub>.</sub> 1035	3105
-	agg Arg	_	3										:		

Fig. 10-5

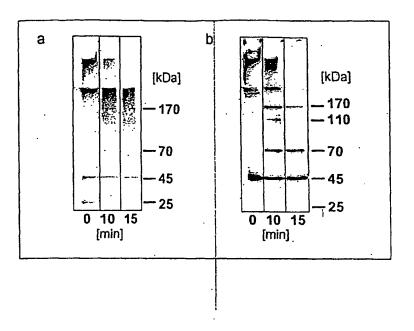
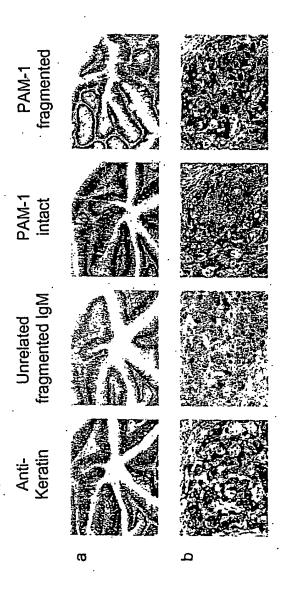


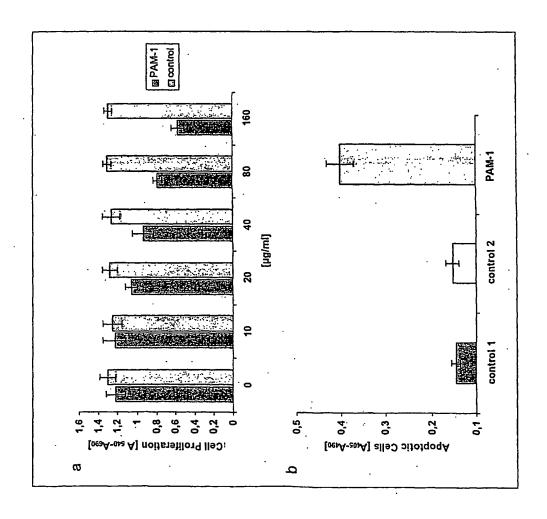
Fig. 11



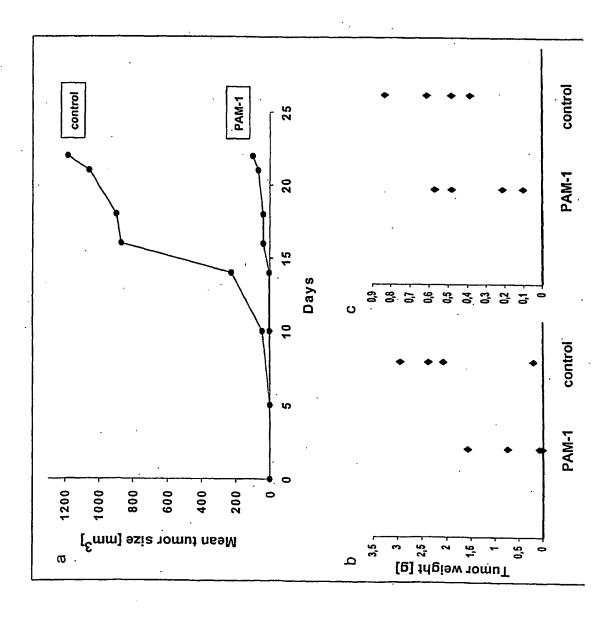
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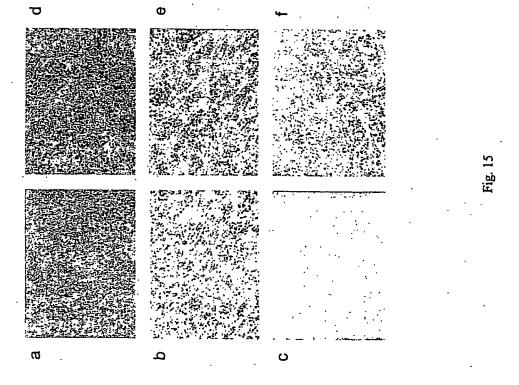


ig. 13



ig. 14





				•					•		•
PFPAGGPP-R PFPAGGPPAR	ADEPVGKGYN ADEPVGKGYN ADEPVGKGYN	ckkailrvae Ckkailrvae Ckkailrvae	PRSREARLSY PRSREARLSY PRSREARLSY	TDPGADYRID TDPGAJYRID TDPGADYRID	AVFSCLYREA AVFSCLYRHA AVFSCLYRHA	Llmracepii Llmracepii Llmracepii	eakehruslk Eakehruslk Eakehruslk	FCPEADSKTN FCPEADSKTH FCPEADSKTN	IIQESALOYR IIQESALOYR IIQESALOYR	SCLMEALEDK SCLMEALEDK SCLMEALEDK	
	ADE ADE ADE	CKK	PRS PRS PRS	101 101 101	AVE AVE	EEE	EAK	FCP	1100	SCLP	
QQQQTQPPQP	KSTITEIREC KSTITEIREC KSTITEIKEC	REPKIQVSEL Repkiqvsel Repkiqvsel	KKYRCNVENL KKYRCNVENL KKYRCNVENL	OGALOTLIQE OGALOTLIQE OGALOTLIQE	netsefæpgg Netsefæpgg Netsefæpgg	lesediqiea Lesediqiea Lesediqiea	STTVRNDTLQ STTVRNDTLQ STTVRNDTLQ	NRVCKOMIKK MRVCKOMIKE MRVCKOMIKE	SSOCEDQIRI SSOCEDQIRI SSOCEDQIRI	AITPGRGRQM ALTPGRGRQM AITPGRGRQM	٠
OLOCOCOCCC OLOCOCCCCC	KFESVAREVC KFESVAREVC KFESVAREVC	ekglvkeaee ekglvkeaee ekglvkeaee	SLAKSCKSDL SLAKSCKSDL SLAKSČKSDL	gekgnigmnc gekgnigmnc gekgnigmnc	ASRLCHTHGW ASRLCHTHGW ASRLCHTHGW	CRDIVGNLTE CRDIVGNLTE CRDIVGNLTE	KKKVDVVICL KKKVDVVICL KKKVDVVICL	MMDPELDYTL MMDPELDYTL MMDPELDYTL	LKLRYADQRL LKLRYADQRL LKLRYADQRL	САГРІКНИСА 1 САГРІКНИСА 1 САГРІКНИСА 1	RVTRELKOR* RVTRELKOR* RVTRELKOR*
QQLPQLLQSS	NYKENLTTD? NYKENLTTD? NYKENLTTD?	HSÖGEVVSCL HSÖGEVVSCL HSÖGEVVSCL	LIAQDYKVSY LIAQDYKVSY LIAQDYKVSY	TLHCLMKVVR TLHCLMKVVR TLHCLMKVVR	PVLYRKCOGD PVLYRKCOGD PVLYRKCOGD	QDHLDDLVVE QDHLDDLVVE QDHLDDLVVE	EDVLKLCPNI EDVLKLCPNI EDVLKLCPNI	OKVFKLOETE OKVFKLOETE OKVFKLOETE	SELEGOVISC SELEGOVISC SELEGOVISC S	IFVDPVLHTA ( IFVDPVLHTA ( IFVDPVLHTA (	IGLMCGRITK RVTRELKDR IGLMCGRITK RVTRELKDR IGLMCGRITK RVTRELKDR
GOAGGGGPAG	ISSDCHHLLW ISSDCHHLLW ISSDCHHLLW	GSIRLGEKDA GSIKLGEKDA GSIRLGEKDA	CREALTTROK CREALTTROK CREALTTROK	icsglarkgr HCsglarkgr HCsglarkgr	VEISRDWKLD VEISRDWKLD	Tetgakece Tetgelece Ilhoranduk	esykermack esykermack esykermack	NKKQLSTRCH NKKQLSTRCH NKKQLSTRCH	HGILTKAKDD HGILTKAKDD HGILTKAKDD	Lnmlkeskad Lnmlkeskad Lnmlkeskad	ISGS_CILFL ISGS_CILFL ISGS_CILFL
GPGANFVSFV	DVREPENE LODVREPENE LODVREPENE	CKNDINILKC CKNDINILKC CKNDINILKC	HKFEESMSEK HKFEESMSEK HKFEESMSCK	ILSCRGEIEH ILSCRGEIEH ILSCRGEIEH	DCEHRLLELO DCEHRLLELO DCEHRLLELO	IDLGKWCSEK IDLGKWCSEK SRECRAEVOR	SQLVQMKDER EQLVQMKDER FQLVQMKDER	nagi ieclke Nagi ieclke Nagi ieclke	ACKADIPKFC ACKADIPKFC ACKADIPKFC	IKTELCKKEV IKTELCKKEV IKTELCKKEV	SPSKNYILSV SPSKNYILSV SPSKNYILSV
PARASHSQGQ PGHGVHSQGQ	WSWNLAVLEC WSWNLAVLEC	YRLICGFMDD YRLICGFMDD YRLICGFMDD	egrvykclfn egrvykclfn egrvykclfn	Medfslspei Medfslspei Medfslspei	ehlytekmve Ehlytekmve Ehlytekmve	LDPALQDKCL LDPALQDKCL TETGQELECL	NEKCAIGVTH NEKCAIGVTH NEKCAIGVTH	KNFCSAVQYG KNFCSAVQYG KNFCSAVQYG	DYRLNPMLRK DYRLNPMLRK DYRLNPMLRK	eeclkvullk beclkvullk beclkvullk	fedlamqumt Fedlamqumt Fedlamqumt
LLFAAGGRNS LLFAAGAEKL	DVTRVCPKHT DVTRVCPKHT	TKMTAIIESD TKMTAIIESD TKMTAİIESD	erfcentoag Erfcentoag Erfcentoag	GEKLDYRRML GEKLJYRRML GEMLDYRRML	GDPMILSCLM GDPMISSCLM GDPMILSCLM	ILHQRAMDVK ILHQRAMDVK IDLGKWCSEK	ГІОИКНОКОМ ГІОИХНОКОМ ГІОИХНОКОМ	DLYEACKSDI DLYEACKSDI OLYEACKSDI	itkroitont Itkroitont Itkroitont	aaaqeqtgqv aaaqeqtgqv aaaqeqtgqv	YAAKVAPADG YAAKVAPADG YAAKVAPADG
FRESAALHIL FRESAALHIL	KLAEEESCRE KLAEEESCRE	ITEYQCHQYI JTEYQCHQYI ITEYQCHQYI	HLYFACRODR HLYFACRODR HLYFACROOR	RGRQVSSECQ RGRQVSSECQ RGRQVSSECQ	iotackhirs Iqtackhirs Iqtackhirs	SRECRAEVOR SRECRAEVOR LDPALODRCL	QIDSGDLMEC QIDSGDLMEC QIDSGDLMEC	emtedirlep Emtedirlep Emtedirlep	БІМОРКСКОМ БІМОРКСКОМ БІМОРКСКОМ	DEISSLCAEE DEISSLCAEE DEISSLCAEE	ALNORIEMWS RINDRIEMWS RLNDRIEMWS
MAACGRVRRM	RSGAGAGGGW	VSCLVDHRGN VSCLVDHRGN VSCLVDHRGN	LSSJOFHLOR LSSJJFHLOR LSSDJYHLUR	LLMCLESAVH LLMCLESAVH LLMCLESAVH	RALNEACESV RALNEACESV RALNEACESV	YRTEEQGRRI YRTEEQGRRI YRTEEQGRRI	QNFCHDVADN QTFCHD-ADN QNFCHDVADN	CRRQLRVEEL CRRÇLRVEEL CRRQLRVEEL D	LQCLKQNKNS LQCLKQNKNS L	LOPQLQLHCS I LOPQLQLHCS I	RVALQPECKK : RVALQPECKK : RVALQPECKK :
<b>пп</b> п	101 102 103	201 201 201	301 301 301	401 401 401	501 501 501	601	701 701. 701.	801 c	901	1001	1101 F 1101 F 1101 F
23132 CFR-1 MG160	23132 · CFR-1 MG1 EC	23132 CFR-1 MG_60	23132 CFR-1 MG160.	23132 CFR-1 MG165	23132 CFR-1 MG160	23132 CFR-1 MC160	23132 CER-1 MG160	23132 C5R-1 KG160	23132 CFR-1 MG160	23132 CER-1 NG: 60	23132 CFR · J NG160

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### Human antibody PAM-1 (clone 103/51)

## Heavy chain sequence

#### CDR I

													_					
	TCC																GGC Gly	54
ura.	DUL	Deu		5	-	-,-			10	Cly	1110			15	501	-7-	GLY	
-	CAC His					_											ATA Ile	108
	20	•			•	25		-	•	•	30		-			35	,	
	CI	OR I									•							
	TAT Tyr															-		162
		~	40			•	•	45		•.			50	•				
	TCC Ser								_								AGA	216
55	DCT.	AL 9	קטה		60	275		****		65	шсņ	0111	:		70	пец	Arg	
									·				CD	RII	T.			
																	CCT	270
Ala	Glu	Asp 75	Thr	Ala	Val	Tyr	80	Cys	Ala	Arg	Ser	Thr 85	Thr	Arg	Ser	Tyr	Pro 90	
			•	CI	RII	:I								_				
										-				•				
	TAC		-		-	-				-					31:	2		

Fig. 17

PCT/IB2005/002480

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# Human antibody PAM-1 (clone 103/51)

# Light chain sequence

GTG Val	ACC	TCC	TAT Tyr	GTG Val 5	CTG Leu	ACT Thr	CAG Gln	CCA Pro	CCC Pro 10	Ser	GTG Val R I	TCA Ser	GTG Val	GCC Ala	Pro	GGA Gly	CAG Gln	54
ACG Thr	GCC Ala 20	AGT Ser	ATT	ACC Thr	TGT Cys	GGG Gly 25	GGA Gly	AAT Asn	AAC Asn	ATT Ile	GGA Gly 30	AGT Ser	AAA Lys	AGT Ser	GTG Val	CAC His 35	TGG Trp	108
												•		(	DR :	ΙΙ		
TAC Tyr	CAT His	CAG Gln	AAG Lys 40	CCA Pro	GGC Gly	CAG Gln	GCC Ala	CCT Pro 45	GTG Val	CTG Leu	GTC Val	GTC Val	TAT Tyr 50	GAT Asp	GAT Asp	AGC Ser	GAC Asp	162
CGG Arg 55	CCC Pro	TCA Ser	GGG Gly	ATC Ile	CCT Pro 60	GAG Glu	CGA Arg	TTC Phe	TCT Ser	GGC Gly 65	TCC Ser	AAC Asn	TCT Ser	GGG Gly	AAC Asn 70	ACG Thr	GCC Ala	216
ACC Thr	CTG Leu	ACC Thr 75	ATC Ile	ACC Thr	AGG Arg	GTC Val	GAA Glu 80	GCC Ala	GGG Gly	GAT Asp	GAG Glu	GCC Ala 85	GAC Asp	TAT Tyr	TAC Tyr	TGT Cys	CAG Gln 90	270
				CD	R II	I												
GTG Val	TGG Trp	GAT Asp	AGT Ser	AGT Ser 95	AGT Ser	GAT Asp	CTC Leu	AAT Asn	TGG Trp 100	GTG Val	TTC Phe	GGC Gly	GGA Gly	AGG Arg 105	ACC Thr	CAA Gln	GCT Ala	324
GAC Asp	CGT Arg 110	CCT Pro	ACG Thr	TCA Ser	GCC Ala	CAA Gln 115	GGC Gly	TGC Cys	CCC Pro	TCC Ser	GGT Gly 120	CAC His	TCT Ser	GTT Val	CCC Pro	CGC Arg 125	CCC Pro	378
	CTG Leu						399											

Fig. 18

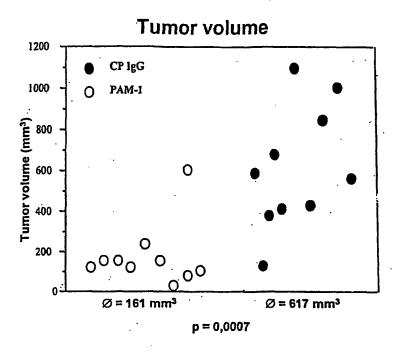


Fig. 19(A)

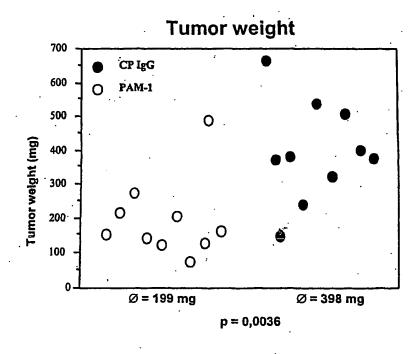


Fig. 19(B)

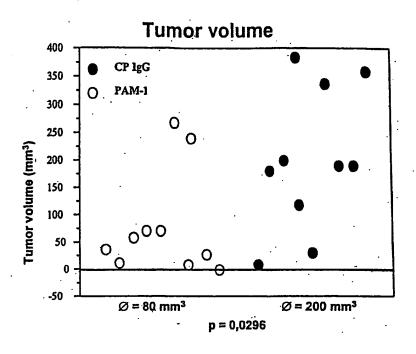


Fig. 20(A)

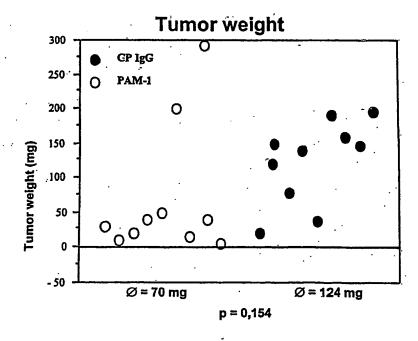


Fig. 20(B)

